PUBLIC (SERVICES) (1950) Department

MS. SERIES.

G.O. No. 3431

Dated 10-10-1949

[Despatch Abstract.]

PUBLIC SERVICES - Provincial and Subordinate Services - Qualificatio
New Degrees and Diplomas instituted by the Universities in the
Province - Prescription in the concerned special - Rules - Papers
recorded.

One Copy for Mysore

PUBLIC (SERVICES) DEPARTMENT

Office Memorandum No. 3609/47-20, 4th July 1949

Public Services—Provincial and Subordinate Services—Qualifications—New Degrees and Diplomas instituted by the Universities in the Province—Prescription in the concerned special rules.

Office Memorandum—No. 3609/47-20, Public (Services), dated 4th July 1949.

In November 1947 the Vice-Chancellor of the Madras University brought to the notice of the Government that since the prescription of qualifications for various posts under the Provincial Government, the Madras University had instituted new degrees and diplomas, that several of those degrees and diplomas were and are intended to serve a very definite purpose and would fit in well with the qualifications under the Government for certain posts and that others again were degrees or diplomas comparable to such degrees or diplomas which the Government might have fixed for some posts. He also suggested that the Government might appoint a small Committee to review the qualifications that have been prescribed and to include such additional qualifications as the Government might deem desirable on the recommendation of such Committee. The suggestion was referred to the Madras Public Service Commission for its opinion. The Commission stated that a more useful way of approach would be for the Universities to give a complete list of the new degrees and diplomas instituted by them together with the subjects required to be studied for each and the additions or changes which they would like to propose in respect of each post. The Commission also suggested that the Government might communicate the list to all heads of departments and obtain their views as to the posts for which each of the qualifications might usefully be prescribed and that a small Committee might then be constituted in which the Universities and the Commission might be represented. With the views of the heads of departments before it. the Committee would, the Commission stated, be better able to formulate proposals for the orders of the Government. Then in consultation with the Commission the Government might prescribe the new qualifications in the rules.

2. In accordance with the Commission's suggestion mentioned in the previous paragraph lists and other particulars were obtained from the Andhra, Annamalai and Madras Universities. A copy of the lists and other particulars is in the annexure to this Memorandum. The Government consider that the proposal to refer the list to all heads of departments, get their opinions and consider them in a Committee is unnecessary. Instead each section in the departments of the Secretariat is requested to consider the suggestions of the Universities in so far as they relate to posts under its administrative control. Then in consultation with the heads of departments concerned and the Madras Public Service Commission, each department is requested to amend the rules with which it is concerned. If in any case unanimity of opinion is not reached by the head of the department, departments of the Secretariat concerned, the Commission and the recommendations of the Universities, then the particular matter may be settled by personal discussion with the concerned authority or authorities.

3. Departments of the Secretariat are also requested to keep the Public (Services) Department in touch with the action they take in the matter.

K. RAMUNNI MENON,
Chief Secretary.

To the Departments of the Secretariat (all sections).

Copy to the Registrars of the Madras, Andhra and Annamalai Universities.
" Secretary, Madras Public Service Commission.

ANNEXURE.

ANDHRA UNIVERSITY.

STATEMENT I.

Examination. (1)	Examination qualifying for admission to course. (2)	Period of course. (3)	Subjects taught. Old Regulations. (4)	Subjects taught. New Regulations. (5)	Speciality. (6)
			Faculty of Commerce.		
B.Com.	Intermediate ..	Two years.	Part I—English—Three papers each of three hours' duration. Part II—Hindi—One paper of three hours' duration. *Study of certain text books and composition thereon.* Translation from Hindi into English and vice versa. Part III—There shall be *seven papers* of three hours' duration, one on each of the *five compulsory* subjects under Group A and *two* on the *Special* (Optional) subjects. Group A—Compulsory—(1) Economics, including Money, Exchange and Banking, (2) Accountancy, (3) Business Organization, (4) Mercantile Law and (5) Commercial Geography. Group B—Optional—Any one of the following subjects :—(1) Advanced Accounting and Auditing, (2) Advanced Banking and Currency, including Law and Practice of Banking, (3) Transport, (4) Statistics and their application to Commerce, (5) Recent Economic History of England, France, Germany, Italy, U.S.A., Japan and India and (6) Insurance.	Part I—English—One paper of three hours' duration carrying 100 marks. [This paper shall be the same as that prescribed for B.A.(Hons.,) Part I, English, B.Com. (Hons.), B.Sc. and B.Sc. (Hons.) Examinations.] Part II—Hindi—One paper of three hours' duration carrying 100 marks on translation from Hindi into English and vice versa [This paper shall be the same as that for B.Com. (Hons.)] Part III—There shall be *nine papers* of three hours' duration and carrying 100 *marks* each *one on each of the seven compulsory* subjects and *two* on the *optional* subjects. The following *compulsory* subjects, viz., (1) Commercial *Practice and Correspondence*, (2) Commercial Geography, (3) *Book-keeping* and Accountancy, (4) Mercantile Law, (5) General Economics, (6) *Theory and Practice of Banking*, (7) Business Organization and any one of the following special subjects : (1) Advanced Accounting and Auditing, (2) Currency and Exchange, (3) Transport, (4) Statistics and their application to Commerce, (5) Recent Economic History of England, Germany, U.S.S.R., U.S.A., Japan and India, (6) Principles and Practice of Co-operation, and (7) Insurance. The first four compulsory subjects are grouped under Group A and the rest of the compulsory subjects together with the optional subjects is termed Group 'B.' Candidates can pass out in the two groups at different appearances.	....
B.Com. (Hons.)	Intermediate. Admission ordinarily restricted to candidates who took one or more commercial subjects under Part III in Intermediate.	Three years.	Part I—Preliminary Examination (at the end of the first year)—(*a*) English, (*b*) Translation (Hindi). English—two papers of three hours' duration each. Part II-A—(1) General Economics, (2) Banking, (3) Accounts, (4) Business Organization, (5) Secretarial practice, (6) Commercial Geography, (7) Mercantile Law, and (8) Elements of Economics and Commercial Statistics. Part II-B—(1) Advanced Accounting and Auditing, (2) Transport, (3) International Trade, (4) Currency and Exchange, (5) Recent Economic History of England, Germany, U.S.A., Japan and India and (6) Insurance. Candidates shall appear for Part II not later than the end of the fourth year after commencing the course and graduates not later than three years, etc	Part I—(*a*) English and (*b*) Translation (Hindi). English—One paper of three hours' duration carrying 100 marks. [The paper shall be the same as that prescribed for B.A. (Hons.), Part I—English, B.Com. Pass, B.Sc. and B.Sc. (Hons.) Examinations.] Part II-A—(1) Economics, (2) Commercial Geography, and (3) Book-keeping and Accounts. Part II-B—(1) Industry, Trade and Transport, (2) Business Administration, (3) Mercantile Law, (4) Economic and Business Statistics, (5) Theory and Practice of Banking and (6) Special subject—Any one of the following subjects : (*a*) Advanced Accountancy and Auditing, (*b*) Currency and Exchange, (*c*) Economics of Transport, (*d*) International Trade, (*e*) Recent Economic History of England, Germany, U.S.A., Japan, U.S.S.R. and India and Italy and (*f*) Insurance. Candidates may appear for Part II-A at the end of the second year and for Part II-B at the end of the third year provided that candidates shall appear commencing the course and graduates not later than three years.	....
			Faculty of Science—M.Sc. by Examination.		
1 M.Sc. in Applied Physics.	B.Sc. (Pass) or B.Sc.(Hons.) with Physics (Main).	Two years. One year.	(1) Applied Mechanics, (2) Optical Instruments, (3) Applied Electricity and (4) Wireless. In addition there shall be an examination in Drawing.	....	Class I—Not less than 60 per cent. Class II—Not less than 50 per cent.

Examination.	Examination qualifying for admission to course.	Period of course.	Subjects taught.		Speciality.
			Old Regulations.	New Regulations.	
(1)	(2)	(3)	(4)	(5)	(6)
			Faculty of Science—M.Sc. by Examination—cont.		
2 M.Sc. in Mathematical Physics.	B.Sc. (Hons.) with Mathematics or withPhysics or (B.A.) Hons. in Mathematics.	One year.	Three papers each of three hours' duration—(1) Relativistic Mechanics, (2) Quantum Mechanics, (3) Any one of the following: (i) Group theory and its application to Physics, (ii) Astro-Physics, (iii) Crystal Physics, (iv) Relativistic Quantum Field Theory, (v) Statistical Physics and (vi) Nuclear Physics.	....	Class I—Not less than 60 per cent. Class II—Not less than 50 per cent.
3 M.Sc. Chemistry (including Microscopy) of Foods, Drugs and Water.	B.Sc. (Hons.) or pass with Chemistry.	One year. Two years.	Two papers in theory each of three hours' duration and three practicals of six and half hours' duration each and an oral examination.		Do.
4 M.Sc. Chemical Technology.	B.Sc. (Hons.) with Chemical Technology.	One year.	(1) Scientific German Translation, (2) General Economics and factory Management, (3) (*a*) Sugar Technology, (*b*) Pharmaceutics, (*c*) Chemical Engineering, (*d*) Oils and Fats, (*e*) Ceramics, (4) Home paper (Corresponding to I Chemical Engineering Examinations), (5) Oral and (6) Records.		Do.

Examination.	Examination qualifying for admission to course.	Period of course.	Subjects taught.	Speciality.
(1)	(2)	(3)	(4)	(5)
		Faculty of Arts.		
B.A. Hons. ..	Intermediate	Three years ..	Part I—(1) English during one year .. Part II—Optional—(1) Mathematics, (2) Philosophy, (3) History and Politics, (*a*) Economics, (4) English Language and Literature (plus a simple course in French or German or the History of England), (5) Sanskrit Language and Literature, (6) Telugu Language and Literature (plus Early South Indian History).	....
M.A.	B.A. (Hons.)	No further examination. A B.A. (Hons.) graduate can proceed to take the M.A. Degree at any Convocation subsequent to his taking the B.A. (Hons.) Degree.		....
M.A. (Hons.) by research).	First or second class B.A. (Hons.)	Approved full time course of research for at least two academic years.	Research in the subject taken in B.A. (Hons.)	....
Ph.D. (by research).	B.A. (Hons,), first or second class. B.A. (Hons.), third class. M.A. (Hons.) or M.Com. or M.Com. (Hons.)	Three years .. Four years. Two years.	Research in the subject taken in B.A. Hons. or M.A. (Hons.) or M.Com. or M.Com. (Hons.)	....
		Faculty of Science.		
B.Sc. Hons. ..	Intermediate	Three years ..	Part I—English and a simple course in French or German. Part II—Optionals (1) Mathematics, (2) Physics, (3) Chemistry, (4) Botany, (5) Zoology, (6) Geology and (7) Chemical Technology as Main subject. In the case of (7) Part I does not form part of the course.	With Chemical Technology as Main subject— Part I—(1) Mathematics, (2) Physics, (3) Chemistry, (4) General Engineering including Mechanic Drawing and work of practice and (5) Pharmaceutical Botany for Pharmaceutical students. Part II—Chemical Technology and Chemical Engineering with either (1) Sugar, (2) Pharmaceuticals and fine Chemicals, (3) Oils and Fats (including essential oils) and (4) Ceramics.
M.Sc. (by research).	B.Sc. (Hons.) or B.A. (Hons.) with Mathematics, B.Sc., first or second class, B.Sc. (Hons.) or B.A. (Hons.) Mathematics, second class.	Advanced study and research. One year. Two years.	Research in subjects taken for B.Sc. (Hons.) or B.A. (Hons.) Mathematics.	....

Examination.	Examination qualifying for admission to course.	Period of course.	Subjects taught.	Speciality.
(1)	(2)	(3)	(4)	(5)
			Faculty of Science—cont.	
M.Sc. (by examination).	B.Sc. Pass or Hons.* with Physics, Chemistry or Chemical Technology	Pass—two years. Hons.—one year.	Either (1) Applied Physics, (2) Chemistry (including Microscopy) of Foods, Drugs and water, (3) Chemical Technology, (4) Mathematical Physics—B.Sc. (Hons.) with Mathematics or Physics or B.A. (Hons.) with Mathematical Course of study isonly for one year.	....
D.Sc.	M.Sc. or M.B.B.S. ..	Three years ..	Approved full time course of research ..	
			Faculty of Commerce.	
B.Com. (Hons.) ..	Intermediate. Admission ordinarily restricted to candidates who took one or more Commercial subjects under Part III in Intermediate.	Three years ..	Group A (Compulsory). Part I—English and Translation (Hindi). Part II-A—(1) Economics, (2) Commercial Geography and (3) Book-keeping and Accountancy. Part II-B—(1) Industry, Trade and Transport, (2) Business Administration, (3) Mercantile Law, (4) Economic and Business Statistics, (5) Theory and Practice of Banking and (6) Special subject. Group B (Optional)—(1) Advanced Accounting and Auditing (2) Economics of Transport, (3) International Trade, (4) Currency and Exchange, (5) Recent Economic History of England, Germany, U.S.A., Japan, U.S.S.R. and India and Italy, (6) Insurance.	
M.Com.	B.Com. Pass and Honours.	Two years .. One year.	Group A (Compulsory)—(1) Industrial Organization and Labour, and (2) Problems in Marketing. Group B (Optional)—(i) Income-tax Law and Accounts, (ii) Cost Accounts or (i) Advanced Banking, (ii) Trade Policies and Controls or (i) Transport with special reference to co-ordination, (ii) Public Utilities.	
M.Com. (Hons.)..	M.Com. first or second class. B.Com. (Hons.) in the case University College teachers passing in first or second class with two years' service afterwards.	One year .. Two years.	Full time course of research	
			Faculty of Medicine.	
M.B.B.S. ..	Intermediate with Physics and Chemistry and studying for six months subjects of Organic Chemistry, Physics and Biology and passing Pre-Registration Examination.	Five years ..	(1) Human Anatomy, (2) Physiology, (3) Elements of Normal Psychology, (4) Pathology, (5) Pharmacology, (6) Hygiene and Preventive Medicine, (7) Medicine, (8) Surgery, (9) Obstetrics and Gynaecology, (10) Ophthalmology and (11) Forensic Medicine.	
M.Sc. in Medical subjects (by research).	Two years after passing M.B.B.S. and not before one year after registration.	Not less than one year of research.	Either (*a*) Anatomy, (*b*) Physiology, (*c*) Biochemistry (Medical).	
Diploma Examination.	One year as House Surgeon or member of staff, A.M.C. or general practice for two years after M.B.B.S.	One year ..	(1) Laryngology and Otology or (2) Gynaecology and Obstetrics.	
M.D. or M.S. ..	(1) Three years Medical Practitioner. (2) Two years Hospital practice or one year Hospital practice only after passing M.B.B.S. in first class.	..	(1) Thesis .. .. ..

Examination.	Examination qualifying for admission to course.	Period of course.	Subject taught.	Specialit
(1)	(2)	(3)	(4)	(5)
		Faculty of Law.		
B.L.	Intermediate	Three years ..	*Law Preliminary.*—(1) English based on prescribed books socio-Politics—Legal interest, (2) History of Social Institutions, (3) Political Theory and Organisation, and (4) Outlines of European History. *First Law Examination.*—(1) Jurisprudence, (2) Outlines of Roman Law, (3) The Law of Contracts including the Indian Contract Act, the Negotiable Instruments Act and the Specific Relief Act, (4) The Law of Torts, (5) Criminal Law (comprising the Inidan Penal Code and General Principles of Criminal liability).	....
	2. A Degree Examination.	Two years ..	(1) Shall have passed the First Law Examination. (2) *B.L. Examination.*—(1) Enlish Law of Property and the Indian Transfer of Property Act, (2) The Law of Public and Private Trusts and the Law of Easements and the Law governing Land Tenures, (3) Hindu Law, (4) Muhammadan Law and the Indian Succession Act, (5) Constitutional Law of India and General Survey British and Dominion Constitutions and (6) The Law of Evidence.	
		Faculty of Engineering.		
.. ..	Inter. Science or Intermediate with Physics, Chemistry and Mathematics.	Four years ..	*First Examination, Part I.*—(1), (2) Mathematics I and II, (3) Physics, (4) Chemistry, (5) Applied Mechanics I, (6) Civil Engineering I, (7) Mechanical Engineering, (8) Practical Geometry, (9) Building Drawing, (10) Machine Drawing, (11) Surveying and (12) Workshop. *Part II.*—(13) Mathematics II, (14) Applied Mechanics II, (15) Civil Engineering II, (16) Mechanical Engineering II, (17) Electrical Engineering, (18) Surveying, (19) Civil Engineering Drawing, (20) Machine Drawing, (21) Estimating and (22) Workshop. *B.E. Examination.*—Two years after passing the above. The examination shall be held in the following branches: Civil, Mechanical and Electrical Engineering and shall consist of two parts—Parts I and II.	
		Faculty of Teaching.		
B.Ed.	Shall have passed a degree examination.	One year ..	(i) The Theory and Practice of Education .. (ii) History of Education and Comparative study of Educational systems. (iii) Methods appropriate to the teaching of two of the following groups of subjects:— (*a*) all subjects to young children, (*b*) Mathematics, (*c*) Physical Science, (*d*) Natural Science, (*e*) History and (*f*) Geography, (*g*) one language other than English and (*h*) English.	
M.Ed.	B.Ed. of two years standing.	..	Submission of thesis.	
		Faculty of Agriculture.		
B.Sc. Agriculture.	Intermediate with Chemistry and any two of the following subjects as optionals:—(i) Mathematics, (ii) Physics, (iii) Biology, (iv) Botany, (v) Natural Science, (vi) Zoology including Human Physiology, and (vii) Agriculture.	Three years ..	(i) Agriculture, (ii) Agricultural Botany, (iii) Agricultural Chemistry, (iv) Agricultural Entomology, (v) Agricultural Engineering, and (vi) Animal Hygiene.	....
M.Sc. Agriculture.	B.Sc. Agriculture in II Class of the Andhra University or not less than 60 per cent of the marks in the subject in the B.Sc. Agriculture graduates of other Universities.	Two years research.	....	....

STATEMENT II.

Proposals for the amendment of the "Qualification" clauses of the special rules for the Provincial services.

Service. (1)	Rule to which amendment is proposed. (2)	Amendment proposed. (3)		Remarks. (4)
1 The Madras Agricultural Service.	Annexure referred to in rule 5 (*a*).	Category 5—Agricultural Research Officers. Category 4—Curator of the Government Botanical Gardens.	*After* the words "B.A. (Hons.)" wherever they occur *insert* the words "B.Sc. (Hons.)" *For* the words "The degree of B.Sc. in Agriculture of Madras or," *substitute* the words "the degree of B.Sc. in Agriculture of a University in the Province, or".	This University has instituted B.Sc. (Hons.) courses for all science subjects.
		Category 6—Assistant Research Officers— 1. Assistant Entomologist. 2A. Assistant Agricultural Chemists (Analytical and Animal Nutritional Branches). 3. Agricultural Bacteriologist. 7. Superintendent, Anakapalle Research Station, and Locturer in Botany.	*After* the words "B.A. (Hons.)" wherever they occur *insert* the words "B.Sc. (Hons.)"	
		7. Superintendent, Anakapalle Research Station, and Lecturer in Botany.	In clause (1) *after* the words "B.Sc." *insert* the words "B.Sc. (Hons.)"	
2 The Madras Boiler Service.	Annexure referred to in rule 5 (*b*) (2).	Inspector of Boilers —	*After* the words "Madras University or" in line one of the Annexure *add* the words "the Andhra University or."	
3 Madras Civil Service (Executive Branch).	Annexure referred to in rule 3 (*a*).	Deputy Collector	In (1) Direct recruitment, after the words "B.A. or B.Sc." wherever they occur *insert* the words "or B.Com."	It is considered that a B.Com. degree is also a fit qualification for a Deputy Collector who may be appointed later as a Commercial Tax Officer and will have then to look into commercial accounts.
4 Madras Educational Service.	(i) Sub-rule (*aa*) of rule 6—Other qualifications.	Administrative and collegiate sections D.E.O.S., Principals and Professors of Presidency and Teachers' Colleges.	*After* the words "University of Madras" *add* the words "or the Andhra University."	
	(ii) Annexure referred to in rule 6 (*a*).	Classes II and VII, categories 3, 4, 5, 7 and 8—Direct recruitment—Personal Assistant to the Director of Public Instruction, District Educational Officers, Secretary to the Commissioner for Government Examinations, Deputy Directress, etc.	In (i) *after* the words "M.A." *insert* "or M.Sc. or M.Com." and *after* the words "or B.Sc. (Hons'.)' *insert* "B.Com. (Hons.)"	
	(iii) Do.	Classes II and VII, categories 3, 4, 5, 7 and 8 (Same as 2 above)—Transfer.	In (i) *after* the word "Arts" *insert* the words "or Science or Commerce," *delete* "; ".	
	(iv) Do.	Class III, categories 2, 3, 4 and 5 and Class VIII any category—Direct recruitment: Principals, Senior Lecturers, Vice-Principal, Teachers' College, Professors, Principal and Lecturers of Arts and Teachers' Training Colleges.	In line one *after* the words "M.A." *insert* the words "or M.Sc." in line 3 after the word "subject" *insert* the words "other than Commerce" and in line 4 *delete* "." and *add* the words "M.Com. (Hons.), M.Com. and B.Com. (Hons.) of a University in the Province in respect of posts in Commerce."	
	(v) Do.	Class III, categories 2, 3, 4 and 5 and Class VIII any category—Transfer.	[Same as (v) above.] In line one *after* the words "M.A." *insert* the words "M.Com. or M.Sc." and *after* the words "B.Sc. (Hons.)" *insert* the words "or B.Com. (Hons.)"	
	(vi) Do.	Class III, category 5—Lecturer in Geography.	*After* the words "M.A." *insert* the words "M.Sc., M.Com. (Hons.), M.Com." and in line 2 *after* the words "B.Sc. (Hons)." *add* the words "o B.Com. (Hons.)" wherever they occur.	
	(vii) Do.	Class V, categories (*b*) and (*c*). —	In the list of Indian Universities mentioned in column (4) *include* after Madras "and the Andhra University."	
5 Madras Electrical Service.	Rule 3—Qualifications.	Assistant Engineers (Electrical, Civil and Mechanical).	*After* the words "University of Madras" wherever they occur in the table *inser* "or the Andhra University	

Service.	Rule to which amendment is proposed.	Amendment proposed.		Remarks.
(1)	(2)		(3)	(4)
		Branch 1.		
6 Madras Engineering Service.	(i) Rule 2 (*d*) (iii)—Appointment.	Categories 1, 2, 3 and 4, Assistant Engineer.	In line 4 *after* the words "University of Madras" *insert* the words "or Andhra University."	
	(ii) Rule 4—Qualifications.	Executive and Assistant Engineers.	*After* the words "University of Madras," wherever they occur in the table *insert* the words "or the Andhra University."	
		Branch 2.		
	(iii) Rule 3—Qualifications.	General and Junior Superintendents.	*After* the words "University of Madras" wherever they occur in the table *insert* "or the Andhra University."	
		Branch 3.		
	(iv) Rule 3—Qualifications.	1 Sanitary Engineer ..	Do.	
		4 Mechanical Expert ..	Do.	
		Branch 4.		
	(v) Rule 3—Qualifications.	Radio Engineer	*After* the words "University in the Province," in the table *add* the words "or M.Sc. in Applied Physics with wireless as special subject of the Andhra University."	
		Part II.		
7 Madras General Service.	(i) Rule 3—Qualifications.	Class I—Chief Accountants, etc.	*Convert* the existing sub-rules (*a*) and (*b*) into clauses (*a*) and (*b*) under a new sub-rule to be numbered as 1, *add* the word "or" after the proposed new sub-rule (1), *insert* the matter—"Must possess the B.Com. Degree of the Andhra University preferably with the special subject 'Advanced Accountancy and Auditing'" new sub-rule (2). *Convert* the existing sub-rule (*c*) with a new sub rule (3), *insert* (1) before (*a*) in the existing sub-rule (*c*) and *convert* the existing sub-rule (*d*) to new sub-rule (4).	
	(ii) Do.	Class I-A Chief—Accountant.	In sub-rule (*a*), *after* the words "B.Sc." *insert* the words "or B.Com."	
	(iii) Do.	Class IV—Personal Assistant to the Director, Cinchona Department.	*After* the words "B.Sc." in the table, *insert* the words "or B.Com."	
	(iv) Rule 4—Qualifications.	Class VII—Officers of the Madras Legislature.	In sub-rule (*b*) *after* the words "University of Madras," *insert* the words "or Andhra University."	
	(v) Rule 3—Qualifications.	Class VIII, Category 2—Librarian of the Connemara Public Library.	In line 2 of (i), *after* the words "M.A." *insert* the words "or M.Sc."	
	(vi) Do.	Class XXII—Assistant Engineer for Marine Works.	*After* the words "University of Madras," wherever they occur in the table, *insert* the words "or the Andhra University."	
8 Madras Industries Service.	Annexure referred to in rule 4 (*b*).	Category 2—Oil Technologist.	In (i), *after* the words "Indian University" *add* "or M.Sc. or B.Sc. Hons. in Chemical Technology of the Andhra University with Oils and Fats" as special subject.	
9 Madras Medical Service.	(i) Rule 3—Assistant Surgeons Recruitment.	Class I, Category 2 ..	In (i) *after* the words "University of Madras," occurring in line 2 *insert* the words "or the Andhra University."	
	(ii) Annexure referred to in rule 11—Special qualifications.	Class I, Categories 2 and 12, Class X, Category 2—Assistant Surgeon, Men and Women.	In lines 2 and 3 of the proviso to (ii), *for* the words "the University of Madras," *substitute* "a University in the Province."	
	(iii) Do.	Class I, Category 3—Director of Tuberculosis Institute and Superintendent, Tuberculosis Hospital, Madras.	In (ii) *after* the words "University of Madras," *add* the words "or the Andhra University."	
10 Madras Registration Service.	Rule 4—Qualifications.	Category 2—District Registrars.	In (ii), *after* the words "B.Sc." *insert* the words "or B.Com."	
11 Madras Veterinary Service.	Rule 6—Qualifications—Special.	Category 3—Livestock Development Officer.	In (*b*), *after* the words "B.Sc. in Agriculture," *insert* the words "of the University of Madras or the Andhra University."	
12 Madras Subordinate Civil Judicial Service.	Rule 8 (*b*)—Special qualifications.	Category 4—District Munsifs.	In (ii), 4 *after* the words "University of Madras" *insert* the words "or the Andhra University."	
13 Madras Factory Service.	(i) Rule 2—Appointment and qualifications for appointment.	Category 2	In clause (*a*) of the entry in column (3) qualifications for appointment, after the words "University of Madras," *insert* the words "or the Andhra University."	
	(ii) Do.	Do.	In line one of the note to clause (*b*), *delete* the words "of the Madras University."	

Service.	Rule to which amendment is proposed.	Amendment proposed.		Remarks.
(1)	(2)		(3)	(4)
		Amendments to Madras Provincial Service Rules.		
Madras Agricultural Service.	Annexure referred to in rule 5 (*a*).	Category 3—The Fruit Specialist.	In column 3 *after* "M.A." *insert* the words "or M.Sc."	
Madras Educational Service.	Annexure referred to in rule 6 (*a*).	Class IV—Category 3—Professor of the Law College.	In column 4 (ii), (2) *after* the words "B.Sc." *insert* the words "or B.Com."	The B.Com. degree is as good as B.Sc. or B.A. Degree. so far as mental discipline and cultural value are concerned. Besides having to study English as such the B.Com. student has practically, equal opportunity with the B.A. (Hons.) student in History or Philosophy of gaining familiarity with good English through reading a number of standard English books prescribed in the different subjects in Commerce and Economics and his opportunities in this respect are far superior to those enjoyed by the B.Sc. student.
	Do.	Class IX—Category 1—Kindergarten Lecturers.	In column (4), (i), *after* the words "B.Sc." *insert* the words "or B.Com."	
Madras Engineering Service.	Rule 3 of the rules ..	Radio Engineer	In the table, *after* the note to the entries in column 2 *add* another note (2) "Special preference will be given to those possessing the M.Sc. Degree of the Andhra University in Applied Physics with Wireless as special subject."	
Madras Factory Service.	Rule 2 of (ii) Women's Branch.	Assistant Inspectress of Factories.	In clause (1) of sub-rule (*c*), *after* the words "B.Sc." *insert* the words "or B.Com."	
Madras General Service.	Rule 3 of the rules.	Class XI—Statistical Officer.	In column (2) in (2), *after* the word "Economics," *insert* the words "or M.Com. (Hons.), M. Com. or B.Com. (Hons.)."	
		Class XXI—Electrical and Mechanical Engineer.	In column (1) of clause (ii) of sub-rule (*a*) and (i) of sub-rule (*b*), *after* the words "University of Madras," *insert* the words "or the Andhra University."	
Madras Industries Service.	Annexure referred to in rule 4 (*b*).	Oil Technologist	*After* the entires in column (3), *add* the following as note :— "*Note.*—Preference will be given to those possessing the M.Sc. or B.Sc. (Hons.) Degree Examination in Chemical Technology of the Andhra University with "Oils and Fat "as special subject."	
Madras Medical Service.	Rule 3 of the rules.	Assistant Surgeons ..	In (*a*) of clause (iii) to sub-rule (*a*), *after* the words "University of Madras," *insert* the words "or the Andhra University."	
	Annexure referred to in rule 11 (*a*).	Class II—Chemical Examiner and Professor of Chemistry, Medical College, Madras.	(1) In (iii) (*b*), *for* the words "University of Madras," *substitute* the words "a University in the Province." (2) *After* the words "Master of Science," *insert* the words "or B.Sc. (Hons.)." (3) *Add* a second proviso—"Provided further that a candidate possessing the B.Sc. (Hons.) Degree of the Andhra University in Chemical Technology (with Sugar and Pharmaceutical Chemistry as optional subjects) in the First or Second Class or the Degree of M.Sc. or B.Sc. (Hons.) in Chemistry with the special subject Chemistry (including Microscopy) of Foods, Drugs and Water of the Andhra University shall be given preference after the candidate possessing qualifications specified in (iii) (*a*) above."	
		Class V—Lecturer in Pharmaceutics and Research Chemist.	In column (3) in (*a*), *after* the words "B.A. (Hons.)" *insert* "B.Sc. (Hons.)" and *after* "M.A." *insert* "M.Sc." In (*b*), *for* the words "in Pharmaceutics" *substitute* the words "in Chemical Technology with Pharmaceutics as special subject." In (*c*) *for* the words in brackets "with Sugar and Pharmaceutical Chemistry as optional subject" *substitute* in brackets "with Sugar or Pharmaceutical and fine Chemicals as special subject."	
	Do.	Class V—Pharmaceutical and Research Chemist.	*After* the entries in column (2), *add* a proviso—"Provided that preference will be given to those possessing qualifications prescribed in clauses (*b*) and (*c*)."	
		Class VII—Senior Public Health Assistants.	In column (2) *after* the words "M.A." *insert* the words "or M.Sc."	
Madras Police Service.	Rule 4 of the rules ..	Deputy Superintendents of Police.	In sub-rule (ii), *after* the words "B.Sc." *insert* the words "or B.Com."	
Madras Survey and Land Record Service.	Do.	Assistant Directors ..	In (2) *after* the words "B.Sc." *insert* the words "or B.Com."	

STATEMENT III.

Madras Subordinate Services.

Service.	Rule to which amendment is proposed.		Amendment proposed.	Remarks.
(1)	(2)		(3)	(4)
Madras Agricultural Subordinate Service.	Rule 7—Other qualifications.	....	In column (2) of the table under rule 7 against the entry "Supervisor in the Research Engineering section," *for* the words "the University of Madras" in clause (*a*) *substitute* the words "a University in the Province."	....
Madras Educational Subordinate Service.	(1) Sub-rule (*aa*), Rule 7—Other qualifications.	....	In sub-rule (*aa*) *for* the words "the University of Madras" *substitute* the words "a University in the Province."	
	(2) Annexure II referred to in rule 7 (*a*).	A. Men's Branch—Assistant Professors and Assistant Lecturers.	In column 2, *add* at the end the words "if the subject is commerce, a first or second class degree of B.Com. (Hons.), M.Com. or M.Com. (Hons.)" In the proviso to the existing entry in column 2 *after* the words "University of Madras" *insert* the words "or the Andhra University."	
	(3) Do.	Deputy Inspectors of Schools, etc.	In the first proviso to the entry in column (2) *for* the words "University of Madras" *substitute* the words "a University in the Province."	
	(4) Do.	Men's Branch	In column (2) under the heading Engineering College, *for* the words "University of Madras" wherever they occur, *substitute* the words "a University in the Province."	
	Do.	Men's Branch—Engineering College, Senior Physical Director.	After the words "B.Sc." in column (2), *insert* the words "or B.Com."	
	Do.	Physical Directors, I and II Grades.	After the words "B.Sc." in column (2), *insert* the words "or B.Com."	
	(5) Do.	Women's Branch—Assistant Lecturer in Geography.	In column (2), *after* the words "M.A." *insert* the words "M.Sc., or B.Com. (Hons.), M.Com. or M.Com. (Hons.)."	
	(6) Do.	Assistant Lecturer in other subjects.	In column (2), *after* the words "M.A." *insert* the words "or M.Sc." and at the end of the existing entry *add* the words "if the subject in Commerce, a first or second class degree of B.Com. (Hons.), M.Com. or M.Com. (Hons.) of a University in the Province." In the proviso, *for* the words "the University of Madras" *substitute* the words, "a University in the Province."	
	(7) Do.	Sub-Assistant Inspectresses, etc.	In column (2) " *after* the words "B.Sc." *insert* the words or B.Com."	
		B. Women's Branch—Physical Directress.	*After* the words "B.Sc." in column (2), *insert* the words "or B. Com."	
Madras Electrical Subordinate Service.	Annexure referred to in rule 6 (c).	Class I	In column (2), *for* the words "the University of Madras" wherever they occur, *substitute* the words "a University in the Province."	
Madras Engineering Subordinate Service.	....	....	*For* the words "the University of Madras" wherever they occur, *substitute* the words "a University in the Province." (1) Branch I—(*a*) in the table to rule 5 of the rules. (*b*) in sub-rule (*a*) to rule 10 of the rules. (*c*) in schedule II attached. (2) Branch II—under the heading I grade—Direct recruitment, etc., in schedule II attached. (3) Branch V—in the schedule below rule 6.	
Madras Fisheries Subordinate Service.	Annexure referred to in rule 5.	Inspectors	In (2) and (3) in column (2) *after* the words "B.Sc." *insert* the words "or B.Com."	
Madras General Subordinate Service.	Class I—Annexure referred to in rule 4.	(1) Class I—Category 1—Power-House Superintendent.	In column (2), in (ii) (*a*) for the words "the Univeristy of Madras" *substitute* the words "a University in the Province."	
		(2) Category 2—Shift operators.	In column (2), in (*b*) (i) *after* the word "Guindy" *insert* the words "or Kakinada."	
	Class II—Annexure I referred to in rule 4 (*b*).	Category 1—Curators ..	In (ii) 6 after the words "M.A." *insert* the words "M.Sc."	
	Class XIII—Annexure referred to in rule 4.	Category—Mica Inspectors.	In column 2 *for* the words "Univerity of Madras" *substitute* the words "a Univerity in the Province."	

Service.	Rule to which amendment is proposed.	Amendment proposed.		Remarks.
(1)	(2)		(3)	(4)
Madras Industries Subordinate Service.	Annexure referred to in rule 6.	Class VIII—Categories 1, 2 and 3—First, Second and Third Assistant Chemists.	In (*a*) in column (3) after "Chemistry" *insert* the words "Chemical Technology". After the entries in column (3) *add* the following as proviso—"Provided that preference will be given to those possessing M.Sc. or B.Sc. (Hons.) degree in Chemical Technology of the Andhra University with the special subjects oils and fats."	
Madras Jail Subordinate service.	Annexure referred to in rule 6.	Branch I—Class I—Men's Branch—Jailors and Deputy Jailors.	After the words "B.Sc." wherever they occur *insert* the words "or B. Com."	
		Jailors in sub-jails I and II Grades.	After the words "B.Sc." *insert* the word, "or B.Com."	
		Class II—Women's Branch, Matron and Assistant Matron Superintendents.	In (*i*) after the word "arts" *insert* the word "Commerce."	
Madras Labour Subordinate (temporary) Service.	Annexure referred to in rule 7.	The Calicut Hostel Tutor.	*For* the words "L.T." *substitute* the words "with a degree in teaching."	
Madras Local Fund Audit Subordinate Service.	Rule 5 of the rules.	Inspector	In column (2) in (2) *after* "B.A." wherever occurring *insert* "B.Com.", *after* "M.A." wherever occurring *insert* "M.Com. or M.Com. (Hons.)" and *after* "B.A. (Hons.)" wherever occurring, *insert* B.Com. (Hons.)"	
Madras Medical Subordinate Service.	....	....	*For* the words "the University of Madras" wherever they occur, *substitute* the words "a University in the Province."	
			(1) Annexure referred to in rule 5 of Branch II, Part I—Category 4, Herbarium Superintendent, etc.	
			(2) Annexure II referred to in rule 7 of Branch IV, Part I—Class IV, category 1.—Electrical Supervisor, etc.	
	Annexure III referred to in rule 6.	Class III—Category 1.—Public Health Junior Assistants.	In column (2) *after* the words "M.A." *insert* the words "M.Sc."	
Madras Ministerial Service.	Annexure III referred to in rule 32 (*a*).	Class 9—Statistical Assistant.	*After* (1) *insert* a new clause No. 2 "or B.Com. (Hons.), M.Com. or M.Com. (Hons.) of a University in the Province." and *renumber* the present clause 2 as 3.	
		Category 12—Clerks, etc.	In column (3) *after* the words "B.Sc." *insert* the words "or B.Com."	
		Category 13— Librarian, Assistant and Sub-Librarian.	*After* "B.A. (Hons.)" *insert* "B.Com. (Hons.)" and *after* "B.A." *insert* "B.Com."	
		Category 14—Clerk, Upper Division, Connemara Library.	*After* "B.A." *insert* "B.Com."	
	Annexure referred to in rule 32 (*a*).	Category 20—Readers in the Office of the Registrar of Books—II Grade.	In (1) (ii) after the words "Sanskrit" *insert* the words "or the title of Bhasha Praveena of the Andhra University."	
			In (2) (*a*) for the words "the University of Madras" *substitute* the words "a Univeristy in the Province."	
	Annexure VII referred to in rule 39 (*b*).	Probationary Revenue Inspectors.	For the words "the University of Madras" in rule 5 *substitute* the words "a University in the Province."	
Madras Registration Subordinate Service.	Rule 5—Qualifications.	Reserve Sub-Registrar. ..	In (ii) (1) column (2) *after* the words "B.Sc." *insert* the words "or B.Com."	
Madras Revenue Subordinate Service.	Annexure referred to in rule 7 (*b*).	Category 2—Deputy Tahsildar.	In 2 (*c*) for the words "the University of Madras" *substitute* the words "a University in the Province."	
Madras Secretariat Service.	Rule 19—Qualifications Special.	Category 2—Upper Division Clerk in Finance Department.	In 1, column (3), after the word "Economics" *insert* the words "or B.Com. (Hons.), M.Com., or M.Com. (Hons.)."	
			In 2, column (3) *after* the words "Economics (Main)" *add* the words "or B.Com. degree of a University in the Province with a First class in Part II."	
		Category 3—Lower Division Clerk in the Finance Department.	In column (3) *after* the words "Economics (Main)" *add* the words "or a B.Com. degree of the said University."	
		Category 2 (*a*)—Upper Division Clerk except in the Legal Department.	After "M.A." *insert* "M.Com." and after "B.A. (Hons.)" *insert* "M.Com. or M.Com. (Hons.)."	
		Category 3—Lower Division Clerk except in the Legal Department and Lower Division Clerk in the Legal Department.	After "B.A." insert "B.Com."	
Madras Town-Planning Subordinate Service.	Annexure referred to in rlue 5.	Category 1—Town-Planning Assistant.	In 2 (*a*) in column (2), for the words "the University of Madras" *substitute* the words "a University in the Province."	
Madras Judicial Subordinate Service.	Rule 15 of the rules.	Categories 1 and 2 Manager and Head Clerk.	After "B.A." *insert* "B.Com."	

UNIVERSITY OF MADRAS.

LIST OF DEGREES AND DIPLOMAS IN THE UNIVERSITY WITH THE PARTICULAR SUBJECTS REQUIRED TO BE STUDIED, UNDE THE FACULTIES.

Faculty of Arts.

B.A. Degree—

Part I—English.

Part II—A language to be selected from the following :—

(*a*) Classical—

Sanskrit. Persian.
Greek. Hebrew.
Latin. Syriac.
Arabic.

(*b*) Modern—

(1) Foreign—

French. German.

(2) Indian—

Tamil. Oriya.
Telugu. Hindi.
Kannada. Bengali.
Malayalam. Burmese.
Urdu. Sinhalese.
Marathi.

Part III—Optional subjects—One of the following groups :—

(i-a) Mathematics.
(i-b) Mathematics.
(i-c) Statistics.
(ii) Any two of the following, one of which shall be of the main standard, and the other of the subsidiary standard :—

Mathematics. Geology.
Physics. Physiology.
Chemistry. * Mechanical Engineering.
Botany. * Electrical Engineering.
Zoology.
* Anthropology.

(* These subjects may be offered only as subsidiary subjects).

(iii-a) Philosophy.
(iii-b) * * *
(iii-c) Psychology.
(iv-a) History and Economics.
(iv-b) Economics and History.
(iv-c) Politics and History.
(iv-d) Islamic History and Culture.
(v) Languages other than English.
(vi) Indian Music.
(vii) Western Music.
(viii) Geography (as Main and Subsidiary).
(ix) Home Science.
(x) Indian Painting.

B.A. (Hons.) Degree—

Part I—Preliminary Examination—English.

Part II—Final Examination—One of the following branches :—

Branch I—A. Mathematics.
I—B. Statistics.
II—A. Philosophy.
II—B. Psychology.
III. History.
IV. Economics.
V. Politics.
VI. * *
VII. English Language and Literature.
Branch VIII. Sanskrit Language and Literature.
IX. Arabic Language and Literature.
X. Syriac Language and Literature.
XI. A Dravidian Language or Urdu and its Literature (Tamil, Telugu, Kannada, Malayalam and Urdu).
XII. Hindi Language and Literature.
XIII. Islamic History and Culture.
XIV. Geography.

M.A. Degree—The same subjects as under Part II of the B.A. (Hons.) Degree Examination.

Master of Letters—Research Degree—The subject of the thesis to be on any subject pertaining to the optional subject of the candidate at the B.A. or B.A. (Hons.) or M.A. Degree Examination, or any other qualifying examination.

Doctor of Philosophy (Ph.D.)—Research Degree—The subject of the thesis to be on any subject pertaining to the optional subject of the candidate at the B.A. or B.A. (Hons.) or M.A. Degree Examination, or any other qualifying examination.

Doctor of Letters (D.Litt.)—Research Degree—The subject of the thesis to be on any subject pertaining to the optional subject of the candidate at the B.A. or B.A. (Hons.) or M.A. Degree Examination, or any other qualifying examination.

Faculty of Science.

B.A. Degree—Please see under Faculty of Arts.

B.Sc. Degree—

Part I—Any one of the following languages, at the option of the candidate :—

(i) English.
(ii) Classical—

Sanskrit. Persian.
Greek. Hebrew.
Latin. Syriac.
Arabic.

(iii) Modern—

(*a*) Foreign—

French. German.

(*b*) Indian—

Tamil. Oriya.
Telugu. Hindi.
Kannada. Bengali.
Malayalam. Burmese.
Urdu. Sinhalese.
Marathi.

Part II—Any three of the following, one of which shall be taken as the main subject and the other two as subsidiary subjects :—

Mathematics. Physiology.
Statistics. Geography.
Physics. * Mechanical Engineering.
Chemistry. * Electrical Engineering.
Botany. * Principles of Ore Surveying, Preliminary Prospecting and Ore Assaying.
Zoology. * Anthropology.
Geology.

(* These subjects may be offered only as subsidiary subjects.)

or

Home Science.

B.Sc. (Hons.)—
Part I—English, French or German.
Part II—Optional Branch—
I-A. Mathematics.
I-B. Statistics.

or

one of the following as main subjects :—

II. Physics.	VI. Geology.
III. Chemistry.	VII. Physiology.
IV. Botany.	VIII. Geography.
V. Zoology.	

and

any one of the following (other than the subject taken as the main subject) as a subsidiary subject :—

1 Mathematics.	5 Zoology.
2 Physics.	6 Geology.
3 Chemistry.	7 Physiology.
4 Botany.	8 Geography.

Master of Science (M.Sc.) by examination—Candidates may offer any one of the following subjects, which should, however, have been offered as the main subject for the Honours :—
(i) Mathematics, (ii) Physics, (iii) Chemistry, (iv) Botany, (v) Zoology and (vi) Geology.

Master of Science (M.Sc.) by Research—For this degree candidates should submit a thesis on a subject pertaining to the main subject offered by them for the qualifying degree.

Doctor of Philosophy (Ph.D)—Research Degree for which candidates should submit thesis on subjects pertaining to the main subject offered by them for the qualifying degree.

Doctor of Science (D.Sc.)—Research Degree for which candidates should submit thesis on subjects pertaining to the main subject offered by them for the qualifying degree.

Faculty of Law.

B.L. Degree—

(i) Jurisprudence	For the First Examination in Law (F.L.).
(ii) Roman Law	
(iii) The Law of Contracts, including Negotiable Instruments and Specific Relief	
(iv) The Law of Torts	
(v) Indian Constitutional Law	
(vi) The Law of Property	For the B.L. Degree Examination.
(vii) Hindu Law	
(viii) Muhammadan Law	
(ix) The Principles of Land Tenures in the Madras Presidency	
(x) The Law of Evidence	
(xi) Criminal Law	

M.L. Degree—One of the following branches of knowledge :—
Branch I.—Jurisprudence.
II. Constitutional Law and International Law.
III. Crime and Tort.
IV. Contracts including Mercantile Law.
V. Hindu, Muhammadan and other Personal Laws.
VI. Property.

Doctor of Laws (LL.D.)—Research Degree, for which a thesis on any subject relating to the branch of study offered for the M.L. Degree Examination should be submitted.

Faculty of Medicine.

M.B.B.S. Degree—

Organic Chemistry	For the First M.B. & B.S. Examination.
Anatomy including Elements of Human Embryology	
Physiology including Biophysics and Biochemistry	
Pharmacology	For the Second M.B. & B.S. Examination.
Hygiene and Preventive Medicine	
Pathology with Bacteriology	
Forensic Medicine	For the Final M.B. & B.S. Degree Examination.
Ophthalmology	
Medicine including Therapeutics and Mental Diseases	
Surgery	
Obstetrics and Gynaecology	

M.Sc. Degree—Candidates for this degree should submit a research thesis, and also submit to an examination, and the degree will be confined to the following subjects :—

Anatomy.	Bacteriology.
Physiology.	Biochemistry.
Pharmacology.	Pharmacy.
Pathology.	

Doctor of Medicine (M.D.)—Any of the following branches may be offered :—
Branch I.—Medicine.
Branch II.—Midwifery including Diseases of Women and Children.
Branch III-A.—Pathology (Main) and Bacteriology (Subsidiary).
Branch III-B.—Bacteriology (Main) and Pathology (Subsidiary).

Master of Surgery (M.S.)—One of the following branches :—
Branch I.—General Surgery.
Branch II.—One of the following specialities—
(*a*) Oto-Rhino-Laryngology.
(*b*) Ophthalmology.
(*c*) Orthopaedics.

Post-Graduate Diplomas in the following :—

1 Gynaecology and Obstetrics.	5 Oto-Rhino-Laryngology.
2 Venereology.	6 Radiology.
3 Dermatology.	7 Orthopaedics.
4 Ophthalmology.	8 Tuberculosis.

Bachelor of Sanitary Science (B.S.Sc.)—The following are the subjects for the examination :—

(i) Chemistry and Physics in relation to Public Health, Climatology and Meteorology.	For Part I.
(ii) Bacteriology.	
(iii) Medical Entomology and Parasitology.	
(iv) Hygiene and Preventive Medicine and Public Health including Sanitary Engineering.	For Part II.
(v) Epidemiology and Infectious Diseases.	
(vi) Sanitary Law and Vital Statistics.	
(vii) Public Health Administration.	

Bachelor of Science in Pharmacy B.Sc. (Pharmacy)—The subjects for examinations are——

For Preliminary Examination—

1. General Chemistry.
2. Organic Chemistry.
3. Botany.
4. Physiology.

For Final Examination—

5. Pharmaceutical Chemistry.
6. Pharmaceutics.
7. Practical Pharmacognosy.

Bachelor of Science in Nursing (B.Sc. Nursing)—The following are the subjects for study :—

Academic subjects.	Medical subjects.	Nursing subjects.
English.	Anatomy and Physiology.	Nursing and Allied Arts.
Physics and Chemistry.	Microbiology.	History of Nursing.
Physiology and Sociology.	Nutrition and Diet Therapy.	Nursing—Medical and Surgical, Gynaecological, Children, Public Health and Advanced Nursing.
World History.	Pharmacology and Therapeutics.	Community Health and Social Needs ; Ward Administration and Teaching ; Professional Opportunities and Adjustments.
	Hygiene and Preventive Medicine.	

Doctor of Philosophy (Ph.D.)—Research Degree, the subject of the thesis being one pertaining to the qualifying examination.

Doctor of Science (D.Sc.)—Research Degree, the subject of the thesis being one pertaining to the branch of knowledge chosen for the preliminary degree.

Faculty of Engineering.

Bachelor of Engineering (B.E.)—Any of the following branches may be offered :—

Civil Engineering, Mechanical Engineering, Electrical Engineering, Tele-Communication Engineering, Highway Engineering, Automotive Engineering, Textile Engineering and Aeronautical Engineering.

Besides the technical subjects mentioned above, the course comprises the study of the following basic subjects also :—

Mathematics.
Chemistry.
Physics.
Geology.

Master of Science (M.Sc.)—Research Degree, the subject of thesis being one related to the main branch of knowledge chosen for the B.E. Degree.

Doctor of Philosophy (Ph.D.)—Research Degree, the subject of thesis being one related to the main branch of knowledge chosen for the B.E. Degree.

Doctor of Science (D.Sc.)—Research Degree, the subject of thesis being one related to the main branch of knowledge chosen for the B.E. Degree.

Faculty of Teaching.

Bachelor of Teaching (B.T.)—The course comprises the study of—

A. General Principles of Education.
B. Educational Psychology.
C. General Methods.
D. School Organization and Hygiene.
E. Theory and Practice of Basic Education or
Methods appropriate to the teaching of two of the following subjects :—

(*a*) An Indian Language.
(*b*) English.
(*c*) Mathematics.
(*d*) Physical Science.
(*e*) Natural Science.
(*f*) History.
(*g*) Geography.
(*h*) Home Science.
(*i*) Music.

Master of Education (M.Ed.)—The subjects for examination are—

A. Educational Psychology with emphasis on Experimental Education.
B. Educational Organization and Administration.
C. History of Education.
D. Current Problems in Indian Education.
E. Thesis.

Doctor of Philosophy (Ph.D.)—Research Degree, the subject of the thesis being one pertaining to the M.Ed. Degree.

Doctor of Letters (D.Litt.)—Research Degree, the subject of the thesis being one pertaining to the Ph.D. Degree.

Faculty of Agriculture.

Bachelor of Science in Agriculture (B.Sc. Ag.)—The following are the subjects prescribed :—

(i) Agriculture.	For the First Examination.
(ii) Botany.	
(iii) Chemistry.	
(iv) Zoology.	
(v) Agriculture—Plant Husbandry.	For the Second Examination.
(vi) Agricultural Engineering.	
(vii) Agricultural Zoology.	
(viii) Animal Hygiene.	
(ix) Agriculture—Economics and Farm Management.	For the Final Examination.
(x) Agriculture—Animal Husbandry.	
(xi) Agricultural Botany.	
(xii) Agricultural Chemistry.	

Master of Science (M.Sc.)—Research Degree on a thesis on any of the following subjects :—

Agricultural Botany.
Agricultural Chemistry.
Agricultural Zoology.
Plant Husbandry.
Agricultural Economics.

Doctor of Philosophy (Ph.D.)—Research Degree on one of the subjects pertaining to the preliminary degree.

Doctor of Science (D.Sc.)—Research Degree on one of the subjects pertaining to the preliminary degree.

Faculty of Veterinary Science.

Bachelor of Veterinary Science (B.V.Sc.)—The course of study comprises the following subjects :—

Biology.	For the Preliminary Examination.
Chemistry.	
Animal Husbandry (Handling and Shoeing).	
Anatomy including Histology and Embryology.	For B.V.Sc. Intermediate, Part I.
Physiology including experimental Physiology and Bio-Chemistry.	
Animal Husbandry (Hygiene).	
Parasitology.	
Pathology and Bacteriology including Immunology.	For B.V.Sc. Intermediate, Part II.
Pharmacology including Materia Medica and Pharmacy.	
Animal Husbandry (Nutrition and Dairy Science).	
Medicine including Therapeutics and Toxicology.	For the B.V.Sc. Final Examination.
Surgery including Soundness, Obstetrics and Veterinary Jurisprudence.	
Animal Husbandry (Genetics and Breeding).	
Meat Inspection.	

Master of Science (M.Sc.)—Degree by research thesis and examination on one of the following subjects :—
Anatomy, Physiology, Pathology, Parasitology, Bacteriology, Animal Nutrition and Animal Genetics.

Doctor of Philosophy (Ph.D.)—Research Degree, the subject of the thesis being one pertaining to the preliminary degree.

Doctor of Science (D.Sc.)—Research Degree, the subject of the thesis being one pertaining to the preliminary degree.

Faculty of Technology.

Bachelor of Science in Technology (B.Sc. Tech.)—One of the following Branches of study :—
(*a*) Chemical Engineering.
(*b*) Textile Chemistry.
(*c*) Textile Technology.
(*d*) Leather Technology.
(*e*) Pharmaceuticals and Fine Chemicals.
(*f*) Electro-Chemistry.
(*g*) Industrial Fermentation.

NOTE.—Branches (*a*), (*c*) and (*d*) alone are offered at present.

Candidates for Branches (*a*) and (*d*) have also to study the language German, and the subjects Practical Mathematics and Applied Chemistry.

Master of Science (M.Sc.)—Research Degree, the subject of the thesis being one pertaining to the branch of study offered for the preliminary degree.

Doctor of Philosophy (Ph.D.)—Research Degree, the subject of the thesis being one pertaining to the branch of study offered for the preliminary degree.

Doctor of Science (D.Sc.)—Research Degree, the subject of the thesis being one pertaining to the branch of study offered for the preliminary degree.

Faculty of Commerce.

Bachelor of Commerce (B.Com.)—The subjects for study are—
Part I—English.
Part II—One of the following Languages :—
Foreign—French and German.
Indian—Tamil, Telugu, Kannada, Malayalam, Urdu, Marathi, Oriya, Hindi, Bengali, Burmese and Sinhalese.
(NOTE.—The language offered under Part II should be different from the one offered for the Intermediate Examination—Part II.)
Part III—(1) Economics—General.
(2) Banking, Theory and Practice.
(3) Mercantile Law.
(4) Business Organization and Commercial Geography.
(5) Accountancy.
(6) Auditing.
(7) Precis Writing and Business Correspondence.
(8) One of the following optional subjects :—
(*a*) Transport.
(*b*) Insurance.
(*c*) Co-operation.
(*d*) Statistical Methods and their application to Commerce.

Bachelor of Commerce (Honours) (B.Com. Honours)—
Part I—English ; and Precis Writing and Business Correspondence.
Part II—(1) General Economics.
(2) Rural Economics.
(3) History and Principles of Co-operation and Co-operative Laws.
(4) Mercantile Law.
(5) Banking.
(6) Accountancy.
(7) Auditing—General and Co-operative.
(8) Business Organization.

Faculty of Oriental Learning.

Oriental Titles—
(i) Siromani, in the following branches of Sanskrit Language and Literature :—
Mimamsa, Vedanta, Nyaya, Vyakarana, Sahitya, Ayurveda and Jyotisha.
(ii) Vidwan—
(*a*) Sanskrit and one of the following languages :—
Tamil, Telugu, Kannada, Malayalam, Marathi, Oriya, Hindi ; or
(*b*) One of the following languages as the main language with Sanskrit as the subsidiary language :—
Tamil, Telugu, Kannada, Malayalam, Marathi, Oriya and Hindi.
(*c*) * * *
(*d*) One of the following languages :—
Tamil, Telugu, Kannada and Malayalam.
(iii) (*a*) Afzal-ul-Ulama—Arabic alone.
(*b*) Munshi-i-Fazil—Persian main with Urdu as subsidiary.
(*c*) Adib-i-Fazil—Urdu main with Persian, Tamil or Malayalam as subsidiary.
(*d*) Tabib-i-Kamil—Tibb-i-Unani in Persian as the main language with Urdu as subsidiary.
(*e*) Afzal-ul-Atibba—Tibb-i-Unani in Arabic as the main language with Urdu as subsidiary.
(iv) (*a*) Malpan—Syriac language.
(*b*) Soppar—Syriac as main language with Hebrew as subsidiary.

B.O.L. Degree—Part I—English.
Part II—A. General Indian History.
B. One of the groups under the Oriental Title Examinations.

B.O.L. (Honours)—Part I—English.
Part II—One of the following branches :—
Branch I—Sanskrit.
Branch II—One of the following languages :—
(*a*) Tamil, (*b*) Telugu, (*c*) Kannada and (*d*) Malayalam.
Branch III—One of the following languages :—
(*a*) Arabic, (*b*) Persian and (*c*) Urdu.

Candidates taking Branch I or II or III (*c*)—Urdu, shall besides the selected language, take The History of India, and candidates taking Branch III (*a*) or (*b*) shall, besides the selected language, take Early Islamic History.

Master of Letters (M.Litt.)—Research Degree, the subject of the thesis being one pertaining to the subject or language offered for the preliminary degree.

Doctor of Philosophy (Ph.D.)—Research Degree, the subject of the thesis being one pertaining to the subject for the preliminary degree.

Doctor of Letters (D.Litt.)—Research Degree, the subject of the thesis being one pertaining to the subject for the preliminary degree.

Faculty of Fine Arts.

Sangita Siromani Title—
Preliminary—
Part I—Theory—Vocal, Music, Veena, Violin, Gotuvadyam, Flute or Nagaswaram.
Part II—A Language—Tamil, Telugu, Kannada, Malayalam or Sanskrit.
Part III—Practical.
Final—
Part I—Theory.
Part II—Practical.

Bachelor of Music (B.Mus.)—Part I—One of the following languages :—
(i) English.
(ii) Classical—
Sanskrit. Persian.
Greek. Hebrew.
Latin. Syriac.
Arabic.
(iii) Modern—
(*a*) Foreign—French or German.
(*b*) Indian—Tamil, Telugu, Kannada, Malayalam, Urdu, Marathi, Oriya, Hindi, Burmese and Sinhalese.
Part II—Theory.
Part III—Practical—Vocal, Veena, Violin, Flute, Gotuvadyam or Nagaswaram.

Master of Letters (M.Litt.)—Research Degree, the subject of the thesis being one pertaining to the subject offered for the B.Mus. Degree.

Doctor of Philosophy (Ph.D.)—Research Degree, for a thesis pertaining to the subject offered for the B.Mus. or M.Litt. Degree.

Doctor of Letters (D.Litt.)—Research Degree, for a thesis pertaining to the subject offered for the B.Mus. or M.Litt. Degree.

Certificates and Diplomas.

Certificates—In French, German and Anthropology.

Diplomas—(1) Economics, (2) Politics and Public Administration, (3) Co-operation, (4) Statistics, (5) French and German, (6) Librarianship, (7) Geography, (8) Indian Music, (9) Anthropology, (10) Journalism and (11) Physical Education.

The following degrees may be included as desirable qualifications for the various professional and administrative appointments by direct recruitment under the following categories (vide Annexures in the Madras Services Manual, Volume II, Special Rules corrected up to 1st December 1945, published in 1946) :—

Degrees to be added.

Section 1—The Madras Agricultural Service—
The Government Entomologist and Mycologist—B.Sc. (Hons.).

Section 3—The Madras Civil Service (Executive Branch)—
Deputy Collectors—B.Com.

Section 4—The Madras Co-operative Service—
Deputy Registrars—Degree in Statistics (Pass and Honours).

Section 5—The Madras District Board Engineering Service—
District Board Engineers—Degree in Highway Engineering or Public Health Engineering when introduced.

Section 6—The Madras Educational Service—
1. Personal Assistant to the Director of Public Instruction—B.O.L. (Hons.).
2. Superintendents of Sanskrit Schools—B.O.L. (Hons.), Sanskrit.
3. Principals and Senior Lecturers—B. Com. (Hons.).
Principals and Lecturers—B.O.L. (Hons.).

NOTE.—Wherever B.O.L. (Hons.) first or second class or B.A. (Hons.) or M.A. first or second class in a language is suggested as a suitable qualification, it is to be understood that B.O.L. under the Old Regulations (with three parts) first or second Class is an equivalent qualification. This has already been accepted by Government. The University has also informed Government that first or second class in B.O.L. under the Old Regulations means first or second class in either Part II or Part III. But those who obtain a class in both the parts are to be considered better than those who do so in one part only. Also where a person is required to be proficient in a language, it is desirable to ascertain whether the subject chosen by him under Part III is related to the language taken under Part II. B.O.L. under the New Regulations (with two parts) is a pass degree and is not equivalent to M.A.

4. Lecturers in Geography—B.A. or B.Sc. (Pass or Honours) in Geography.

Section 8—The Madras Engineering Service—
Radio Engineers—B.E. (Tele-Communications Branch).

Section 10—The Madras Factory Service—
Assistant Inspectresses of Factories—B.S.Sc.

Section 12—The Madras Forest Service—
Assistant Conservators—A Degree in Forestry, which should be given first preference, the second preference being given to a First or Second Class Honours Degree in Botany.

Section 13—The Madras General Service—
1. Chief Accountants—B.Com.
2. Superintendents of Cinchona Plantations and Personal Assistant to the Director, Cinchona Department—B.Sc. (Pharmacy) could be an additional qualification.
3. Curator, Madras Record Office—B.O.L. (Hons.).
4. Superintendent, Government Museum—B.A. (Hons.) or B.Sc. (Hons.), Diploma in Anthropology to be an additional qualification.
5. Translators—B.O.L.
6. Statistical Officer—Honours Degree in Statistics.
7. Lay Secretary, General Hospital—B.Com.

Section 14—The Madras Industries Service—
1. Principal of the Government Textile Institute—B.Sc. (Tech.) (Textile Technology).
2. Oil Technologist—B.Sc. (Tech.) (Chemical Engineering).
3. Leather Research Chemist—B.Sc. (Tech.) (Leather Technology).
4. Industrial Engineer—B.Sc. (Tech.) (Chemical Technology).
5. Personal Assistant to Director and Inspector of Industrial Schools—B.Sc. (Tech.) (Chemical Technology).
6. Principal, School of Technology—B.Sc. (Tech.) (Chemical Technology).
7. Assistant Industrial Engineer—B.Sc. (Tech.) (Chemical Technology).
8. Senior Lecturer, School of Technology—B.Sc. (Tech.) (Chemical Technology).

NOTE.—Graduates in B.Sc. (Tech.) (Chemical Engineering) are also qualified for the posts of Inspectors of Explosives and Assistant Work Managers.

Section 20—The Madras Registration Service—
District Registrars—B. Com.

Section 22—The Madras Survey and Land Records Service—
Assistant Directors of Survey and Land Records—B.Com.

...TIONS REGARDING PUBLIC SERVICE RECRUITMENT QUALIFICATIONS FOR SUBORDINATE SERVICES.

Section I—The Madras Agricultural Subordinate Service—No change.

Section II—The Madras Co-operative Subordinate Service—No change.

Section III—The Madras Educational Subordinate Service—

Men's Branch—Assistant Professors and Assistant Lecturers—Add B.O.L. (Hons.) and B.Com. (Hons.) and add same note as before regarding B.O.L. Old Regulations.

NOTE.—Wherever B.O.L. (Hons.) first or second class or B.A. Hons. or M.A. first or second class in a language is suggested as a suitable qualification, it is to be understood that B.O.L. under the Old Regulations (with three parts) first or second class is an equivalent qualification. This has already been accepted by Government. The University has also informed Government that first or second class in B.O.L. under the Old Regulations means first or second class in either Part II or Part III. But those who get a class in both the parts are to be considered better than those who do so in one part only. Also where a person is required to be proficient in a language, it is desirable to ascertain whether the subject chosen by him under Part III is related to the language taken under Part II. B.O.L. under the New Regulations (with two parts) is a pass degree and is not equivalent to M.A.

Deputy Inspectors, etc.—Add B.T.
Commercial—Add B. Com. of Madras University.
Women's Branch—
Assistant Lecturers—Same as for men (above).
Assistant Lecturer in Geography—B.A. or B.Sc. (Pass or Hons.) in Geography.
Sub-Assistant Inspectress, etc.—Add B.T.

Section V—The Madras Engineering Subordinate Service—
Supervisors, etc.—Add B.E. in Highway Engineering and Public Health Engineering when introduced.

Section VI—The Madras Excise Subordinate Service.
Laboratory Assistants—B.Sc. (Phar.) might be an additional qualification.

Section XI.—The Madras Industries Subordinate Service—
Assistant, Kerala Soap Institute—Add B.Sc. (Tech.) (Chemical Technology).

Section XV—The Madras Local Fund Audit Subordinate Service—
Instructors—Add B. Com. (Hons.)

Section XVI—The Madras Medical Subordinate Service—
Public Health Junior Assistant—Add B.Sc. (Tech.) (Chemical Engineering).

Section XVII—The Madras Ministerial Service—
Statistical Assistant—Degree in Statistics or in Mathematics with Statistics as special subject
Clerk, Local Fund—Add B. Com.
Librarian—Add B.O.L. (Hons.)

Section XXII—The Madras Registration Subordinate Service—
Sub Registrars—Add B. Com.

Section XXIV—The Madras Secretariat Service—
Upper Division Clerks—Add B. Com. (Hons.) or B.Com. first class.
Lower Division Clerks—Add B. Com.

ANNAMALAI UNIVERSITY.

I

DEGREES NEWLY INSTITUTED.

B.O.L.
M.Sc. (by examination).
Ph. D.
D. Litt.
D.Sc.
B.E.
B.Sc. (Tech.)
Diploma in Road Construction and Minor Irrigation for Overseer (Suspended since July 1947).
Ilakkia Pulavar
Ilakkana Pulavar.
Siddhanta Pulavar.

II.

DEGREES NEWLY INSTITUTED.

1 B O.L.—The course is one of two years after Intermediate in Group D (same as Oriental Titles Preliminary) in the following subjects :—
Part I—English (same as for B.A. Pass or Honours Preliminary Examination).
Part II—Linguistics with special reference to Tamil or Sanskrit.
Part III—One of the groups identical with Pulavar, Vidwan or Siromani Final Course.

2 M.Sc. (by examination)—
The course is of a year's duration after B.Sc. (Hons.) in Science branches in the following subjects :—
1 Mathematics—Four papers.
2 Zoology—Theory—Three papers.
Practical including viva voce 1.

3 Doctor of Philosophy (Ph.D.)—
Research degree on the basis of a thesis submitted after three years research in the case of a Bachelor of Arts (Hons.) or Master of Arts and two years in the case of Master of Letters or Master of Science, under the guidance of the Head of the Department concerned.

4 Doctor of Letters (D. Litt.)—
Research degree on the basis of thesis submitted provided two years have elapsed from the date of his qualifying for the Degree of Master of Letters or one year from the date of his qualifying for the Degree of Doctor of Philosophy.

5 Doctor of Science (D.Sc.)—
Research degree on the basis of thesis submitted provided two years have elapsed from the date of his having qualified for the Degree of Master of Science, or one year from the date of his having qualified for the Degree of Doctor of Philosophy.

6 Bachelor of Engineering (B.E.)—
The course extends over a period of four years after Intermediate Science in the following branches :—(a) Civil, (b) Mechanical, and (c) Electrical. (Scheme of subjects enclosed).

7 Bachelor of Science (Technology) : B.Sc. (Tech.)—
The course in Technology is of four years' duration after Intermediate Science with the basic course in Chemistry upto the Honours Standard and a general course in Chemical Technology with specialization in Chemical Engineering.

8 Overseer Diploma in Road Construction and Minor Irrigation—Vide booklet enclosed.

9 Ilakkia Pulavar, Ilakkana Pulavar, Siddhanta Pulavar—Two years' course in the subject concerned after the Pulavar Preliminary.

B.E. Degree, B.Sc. (Tech.) Degree and Overseer Diploma.

Degree of Bachelor of Engineering—
1. Candidates for the degree of Bachelor of Engineering (B.E.) shall be required to have passed the Intermediate Examination of this University with Mathematics, Physics and Chemistry as optional subjects or any other examination recognized as equivalent thereto and to have subsequently attended the University College of Engineering for a period of not less than four academic years. They shall be further required to have passed the examinations mentioned below :—

First year Intermediate Engineering Examination Part I.
Second year Intermediate Engineering Examination Part II.
Third year B.E. Degree Examination Part I.
Fourth year B.E. Degree Examination Part II.

The syllabuses for the course shall be prescribed from time to time by the Academic Council on the recommendations of the Board of Studies.

2. A candidate appearing for any of the above Engineering examinations shall produce a certificate of good conduct and of having attended at least 80 per cent of (i) the lectures and (ii) the practical classes. No exemption shall ordinarily be given. In no case will any candidate be admitted to the examination if the attendance is less than 70 per cent.

3. All sessional work is valued and marks awarded by the members of staff and a certificate of progress given by the Head of the department. The Dean of the Faculty shall recommend to the Registrar the names of candidates who can be sent up for the examination on the basis of the conduct and progress in class work during the academic year. Candidates who do not show satisfactory progress will not be sent for the examination. Such candidates may be permitted to repeat the course once.

Marks will be awarded for work as provided in the scheme of examinations and the lists of marks sent by the Head of the Department to the Registrar before the end of the examinations for transmission to the Chairman of the Board. These marks will be added to the marks obtained in the University examinations in the respective subjects.

3 (*a*) A candidate failing in any year's examination in not more than two papers including practical but securing the aggregate minimum prescribed for the whole examination shall be permitted to proceed to the next higher class and take its examination, together with the examination of the previous year in the subjects in which he failed. The results of the higher examination in the case of such candidates will not be considered if they fail to complete successfully the examination of the previous year.

Intermediate Engineering Examination—Part I.

4. A candidate for the Intermediate Engineering Examination, Part I, shall be required to have attended the University College of Engineering for a period of not less than one academic year.

5. The scheme of instruction, examination and sessional marks shall be as hereunder :—

Subject.	Instruction. Hours per week. L.	D.	P.	Examination. Duration, hours.	Marks, maximum.	Sessional marks.	Total.
1 Mathematics Pure	6	..	..	3	100	..	100
2 Mathematics Applied	..	..	..	3	100	..	100
3 Appl. Mech. (Gr. St.)	1	2	..	3	100	20	120
4 Physics	2	..	2	3	100	20	120
5 Chemistry	2	..	2	3	100	20	120
6 Civil Engineering	2	..	..	3	100	20	120
7 Surveying	1	..	..	3	100	..	100
8 Geometrical Drawing	..	4	..	3	100	20	120
9 Survey Practical	..	..	4	3	100	20	120
10 Workshop Practice	..	..	4	3	100	20	120
11 Field Engineering *	..	..	2†				
12 English Composition †	1	..	..				
	15	6	14=35				1,140

6. Candidates who obtain not less than 30 per cent of the marks in each subject separately in theory and practical and not less than 40 per cent of the aggregate marks assigned for the whole examination shall be deemed to have passed the Intermediate Engineering Examination in Part I. All other candidates shall be deemed to have failed in the examination.

Candidates failing in the examination, but passing in any subject or subjects by obtaining not less than 50 per cent of the marks shall be exempted from reappearance for the examination in that subject or subjects.

Intermediate Engineering Examination—Part II.

7. Candidates for the Intermediate Engineering Examination, Part II. shall be required to have attended the second year's course prescribed for a period of not less than one academic year and shall have passed the Intermediate Examination, Part I, or satisfied the conditions of Regulation 3 A.

8. The scheme of instruction and examination shall be as hereunder :—

Subject.	Instruction. Hours per week. L.	D.	P.	Examination. Duration, hours.	Marks, maximum.	Sessional marks.	Total.
1 Mathematics	3	..	..	3	100	..	100
2 Appl. Mech. and Gr. St.	2	2	..	3	100	20	120
3 Civil Engineering	2	..	..	3	100	20	120
4 Mechanical Engineering	2	..	..	3	100	20	120
5 Electrical Engineering	2	..	..	3	100	20	120
6 Survey	1	..	..	3	100	20	120
7 B. Drg.	..	3	..	3	100	20	120
8 M. Drg.	..	3	..	3	100	20	120
9 S. Pract.	..	..	4	3	100	20	120
10 Workshop Practicel	..	..	4	3	100	20	120
11 S.M. Lab.	..	..	2	..	..	..	..
12 MechanicalEnginrering Laboratory	..	..	1‡	..	..	..	..
13 Electrical Engineering Laboratory	..	..	1‡	..	..	..	..
14 Field Engineering	..	..	2‡	..	..	..	..
15 Survey Camp	2 weeks‡			..	..	..	..
	12	8	15=35				1,180

9. Candidates who obtain not less than 30 per cent of the marks in each subject separately in theory and practical and not less than 40 per cent of the aggregate marks assigned for the whole examination shall be deemed to have passed the examination. There will be no class and ranking. All other candidates shall be deemed to have failed in the examination.

Exemption from reappearance in subjects passed will be as per sub-paragraph of Regulation 6 above.

B.E. Degree Examination—Part I.

10. Candidates for the B.E. Degree Examination Part. I, shall be required to have attended the third year's course prescribed in one of the branches Civil, Mechanical, or Electrical, for a period of not less than one academic year and shall havepassed the Intermediate Examination, Part II. or satisfied the conditions of Regulation 3 (*a*).

---

* Records of visits, etc. may be included here.

† Combines with 6. Civil Engineering.

‡ Combines with 4, 5, 3, 6, respectively.

11. Candidates in each branch shall be instructed and examined as prescribed in the scheme below :—

Subject.	Instruction. Hours per week. L.	D.	P.	Examination. Duration, hours.	Marks, maximum.	Sessional marks.	Total.
1. Civil Engineering.							
1 Mathematics*	3	..	..	3	100	..	100
2 S. M. T. Str.*	2	2	..	3	100	20	120
3 Hydraulics.*	1	..	..	3	100	20	120
4 Structural Engineering	2	..	..	3	100	20	120
5 Geology	1	..	†	3	100	20	120
6 Comm. Engg. (Rlway. & H.)	2	..	..	3	100	20	120
7 Surveying	1	..		3	100	20	120
8 Qty. Survey (Est.)	..	3	..	3	100	20	120
9 Desn. & Drg. (under 4)	..	4	..	3	100	20	120
10 Survey Practice	..	..	5	3	100	20	120
11 Workshop Practice	..	..	2	3	100	20	120
12 S. M. Lab.	..	..	3†				
13 Hydraulic Laboratory	..	..	3†				
14 Survey camp	2 weeks†						
	12	9	14 = 35				1,300
2. Mechanical Engineering.							
1 Mathematics	3	..	..	3	100	..	100
2 S. M. & T. St.	2	2	..	3	100	20	120
3 Hydraulics	1	..	..	3	100	20	120
4 Structural Engineering (Special paper)‡	1	..	..	3	100	20	120
5 Theory and Mechanism	2	..	..	3	100	20	120
6 Heat Engines‡	2	..	..	3	100	20	120
7 Elect. Tech.	2	..	..	3	100	20	120
8 M. Drg. & Desn.	..	4	..	3	100	20	120
9 S. M. Lab.	..	..	3	3	100	20	120
10 Electrical Engineering Laboratory	..	..	3	3	100	20	120
11 Workshop	..	..	4	3	100	20	120
12 Hydraulic Laboratory	..	..	3§				
13 Mechanical Engineering Laboratory	..	..	3§				
	13	6	16 = 35				1,300
3. Electrical Engineering.							
1 Mathematics	3	..	..	3	100	..	100
2 S. M. & Th. Str.	2	2	..	3	100	20	120
3 Hydraulics	1	..	..	3	100	20	120
4 Str. Engg.	1	..	..	3	100	20	120
5 Heat Eng.	2	..	..	3	100	20	120
6 Theory & Calc. of Elec. App.	3	..	..	3	100	20	120
7 Desn. and Drg.	..	5	.	3	100	20	120
8 S. M. Lab.	..	..	3	3	100	20	120
9 Mechanical Engineering Laboratory	..	..	3	3	100	20	120
10 Electrical Engineering Laboratory	..	..	3	3	100	20	120
11 Workshop	..	..	4	3	100	20	120
12 Hydraulic Engineering Laboratory	..	..	3¶				
	12	7	16 = 35				1,300

12. Candidates who obtain not less than 30 per cent of the marks in each subject separately in theory and practical and not less than 50 per cent of the aggregate marks assigned for the whole examination in each branch shall be deemed to have passed the examination in Part I in that branch. All other candidates shall be deemed to have failed in the examination. Exemption from reappearance in subjects passed will be as per sub-paragraph of Regulation 6 above.

B.E. Degree Examination—Part II.

13. Candidates for the B.E. Degree Examination, Part II, shall be required to have attended the fourth year's course prescribed in the branch already taken for Part I, for a period of not less than one academic year and shall have passed the Part I examination or satisfied the conditions of Regulation 3-A.

14. Candidates in each branch shall be instructed and examined as prescribed in the scheme below :—

Subject.	Instruction. Hours per week. L.	D.	P.	Examination. Duration, hours.	Marks, maximum.	Sessional marks.	Total.
1. Civil Engineering.							
1 Theory of Struct.	1	2	..	3	100	20	120
2 Str. Engg.	2	4	..	3	100	20	120
3 Hydr. and Hyd. Mach.	1	..	..	3	100	..	100
4 Sanit. Engg.	2	2	..	3	100	20	120
5 Irr. Dock. and Harb.	3	4	..	3	100	20	120
6 Hydraulic Electrical Engineering¶	1	..	..	3	100	..	100
7 Geodesy.	1	..	..	3	100	20	120
8 Desn. and Drg. (2, 4, 5)	..	..	..	3	100	20	120
9 S. M. Lab.	..	..	3	3	100	20	120
10 Hydraulic Laboratory	..	..	3	3	100	20	120
11 Project. **	4 weeks.				200	..	200
12 Quty. Surv (Est.) ††	..	3¶					
13 Survey Practice	..	..	3¶				
	11	15	9 = 35				1,360

* Common to Civil, Mechanical and Electrical branches.
† Combine with 4, 3, 7 respectively.
NOTE.—‡ Common to Mechanical and Electrical Engineering.
§ Combining with 3, 5 respectively.
‖ Combines with 3.
¶ Common to C. & M.E.
** Existing notes.
†† do. (Note* : Combine with 8, 7 respectively).

Subject.	Instruction. Hours per week. L.	D.	P.	Examination. Duration, hours.	Marks, maximum.	Sessional marks.	Total.
2. Mechanical Engineering.							
1 Heat Engines *	2	3	..	3	100	20	120
2 Electrical Technology	2	..	..	3	100	20	120
3 Auto-Engineering	2	..	..	3	100	20	120
4 Hydraulic and Hydraulic Machinery †	2	..	..	3	100	..	100
5 Fuels, Gas, Plant and Boilers	2	..	.	3	100	20	120
6 Hydro-Electrical Engineering	1	..	..	3	100	..	100
7 Workshop Practice and Machine Tools	2	..	..	3	100	..	100
8 Engineering Economics	2	..	..	3	100	..	100
9 Design and Drawing ‡	..	4	..	3	100	20	120
10 Mechanical Engineering Laboratory ‡	..	..	3	3	100	20	120
11 Hydraulic Laboratory ‡	..	..	3	3	100	20	120
12 Workshop ‡	..	..	4	3	100	20	120
13 Electrical Engineering Laboratory ‡	..	.	3				
	17	7	13 = 35				1,360
3. Electrical Engineering.							
1 Heat Engines	2	3	..	3	100	20	120
2 Electrical Theory and Measurements	3	..	..	3	100	20	120
3 Theory and Calculation of Electrical Apparatus	3	..	..	3	100	20	120
4 Hydraulics and Hydraulic Mechinery	2	..	..	3	100	..	100
5. Generation and Utilization	3	..	..	3	100	20	120
6 Hydro.Electrical Engineering	1	..	..	3	100	..	100
7 Transmission and Distribution	3	..	..	3	100	20	120
8 Design and Drawingg §	.	4	..	3	100	20	120
9 Electrical Engineering Laboratory	..	..	3	3	100	20	120
10 Hydro-Electric Laboratory	..	..	3	3	100	20	120
11 Projects	4 weeks.				200	..	200
12 Mechanical Engineering Laboratory ‡	..	..	3 ‖				
13 Workshop.§	..	..	2 ‖				
	17	7	11 = 35				1,360

* Common to Mechanical and Electrical Engineering.
† Combining with 2.
‡ Laboratory, Workshop, Drawing, etc.
§ Laboratory, Workshop, Drawing.
‖ Combine with 2, 3 respectively.

15. Candidates who obtain not less than 30 per cent of the marks in each subject separately in Theory and Practical and not less than 50 per cent in the aggregate marks assigned for the whole examination shall be deemed to have passed the examination in Part II. All candidates passing Parts I and II of the Degree Examination in Engineering at the first attempt shall be ranked in the order of proficiency as determined by the total marks obtained by them in both parts and shall be arranged in two classes, the first class consisting of those securing not less than 60 per cent of the aggregate marks and the second class consisting of all the others. Candidates obtaining not less than 66⅔ per cent of the aggregate marks shall be deemed to have passed the Degree Examination with Honours.

Candidates failing in the examination but passing in any subject or subjects by obtaining not less than 50% per cent of the marks shall be exempted from reappearance for the Examination in that subject or subjects.

16. The candidates to obtain the degrees should have completed six months practical training of which three months may be during the college course.

NOTE.—During the course in the University College of Engineering and Technology, endeavour will be made to give facilities to the students to visit works of importance and the students will be required to submit notes on visits to those works.

Diploma for Overseers.

1. Candidates for this Diploma shall be required to have successfully completed the Madras Secondary School-Leaving Certificate with Mathematics or Physics as optionals and have been declared eligible for admission to a University course of study or have passed the Matriculation Examination of a recognized University or any other examination accepted by the Syndicate as equivalent thereto and to have subsequently attended the University College of Engineering for a period of not less than two academic years. They shall be required to pass the following examinations:—

(*a*) the first examination at the end of the first year course and (*b*) the second and final examination at the end of the second year course.

2. All sessional work will be valued and marks awarded by the members of staff and certificate of progress given by the Head of the department. Rules regarding attendance, character and progress of work will be as per regulations 2 and 3 of the Engineering Degree examinations.

3. Candidates for the first examination shall be instructed and examined in the following subjects in accordance with the following scheme:—

First Examination.

Scheme of Instruction and Examination.

Subject.	Hours of instruction per week.	Examination. Duration, hours.	Marks, maximum.
A. Theory.			
1 Plane Trigonometry	3	3	100
2 Mensuration and Computation		3	100
3 Applied Mechanics (including graphic statics)	1 + 2	3	100
4 Building materials	2	3	100
5 Building construction (*e*)	2	3	100
6 Surveying (*f*)	1	3	100
B. Practical.			
7 Geometrical drawing	4	3	100
8 Sketching and machine drawing	2	3	100
9 Building drawing (*e*)	4	3	100
10 Estimating	2	3	100
11 Workshop Practical	2	3	100
12 Surveying Practical (*f*) (5 and 9, 6 and 12 are allied subjects).	6	3	100
		Total ..	1,200
13 Field Engineering	2	No University examination.	
14 English composition	1		
Total ..	35		

Certificate of progress in field engineering, English composition, drawing and other class work to be produced by the candidates.

4. Candidates obtaining not less than 35 per cent in each of the subjects in theory and practical separately and not less than 40 per cent in the aggregate shall be deemed to have passed. A candidate failing in the first year examination in not more than one theory paper and one practical examination not being allied (as shown in the statement attached) but securing the aggregate minimum prescribed above for the whole examination shall be permitted to proceed to the second year course, to appear for the examination at the end of the course and to complete the examination of the previous year in the subject in which he failed. The results of the second year examination in the case of such candidates will not be considered if they fail to complete successfully the first year's examination.

5. Candidates for the second and final examination shall be examined in the following subjects in accordance with the following scheme:—

Subject.	Hours of instruction per week.	Examination. Duration, hours.	Examination. Marks maximum.
		HRS.	
A. Theory.			
1 Applied Mechanics (includes graphic statics)	2+2	3	100
2 Roads and Bridges	3	3	100
3 Hydraulic and Irrigation	3	3	100
4 Surveying (*g*)	1	3	100
5 Quantity surveying (estimating) (Roads and Irrigation) ..	3	3	100
B. Practical.			
6 Elementary Electrical and Mechanical Engineering ..	2	3	100
7 Civil Engineering Drawing	4	3	100
8 Machine Drawing	4	3	100
9 Workshops Practical	3	3	100
10 Survey Practical (*g*)	6	3	100
		Total ..	1,000
11 Field Engineering	2	No University examination.	
Total ..	35		

(4 and 10 are allied subjects.)

Students will go on survey camps for two weeks.

Certificate of progress to be produced for every practical work during the session.

6. The syllabuses for the course shall be prescribed from time to time by the Academic Council on the recommendations of the Board of Studies.

7. Candidates who obtain at the above examinations not less than 40 per cent in each subject separately in theory and practical and not less than 50 per cent of the total marks allotted for the written papers and practical examination shall separately be deemed to have passed in that examination. All other candidates shall be deemed to have failed in the examination. Candidates who fail in the second and final examination may rejoin the second year class if permitted.

8. Successful candidates in the final examination shall be arranged in two classes and ranked according to proficiency, the first consisting of those who obtain not less than 66⅔ per cent and the second of those obtaining not less than 50 per cent of the second year marks each part is completed in the first attempt.

9. Candidates should in addition complete three months practical training on works.

10. A Diploma will be granted to each candidate who is successful at the final examination after completion of the above practical training.

NOTE.—During the course in the University College of Engineering and Technology, endeavour will be made to give facilities to the students to visit works of importance and the students will be required to submit notes on *visits to those works*.

B.Sc. (Technology) Degree.

1. Candidates for the Degree of Bachelor of Technology [B.Sc. (Tech.)], shall be required to have passed the Intermediate Examination of this University with Mathematics, Physics and Chemistry as optional subjects or any other examination recognized as equivalent thereto and to have subsequently attended the University College of Technology for a period of not less than four academic years. They shall be further required to have passed the examinations mentioned below :—

First year Intermediate Technology Examination, Part I

Second year Intermediate Technology Examination, Part II.

Third year B.Sc. Technology Examination, Part I.

Fourth year B.Sc. Technology Examination, Part II.

The syllabuses for the course shall be prescribed from time to time by the Acadamic Council on the recommendations of the Board of Studies.

2. A candidate appearing for any of the above Technology examinations shall produce a certificate of good conduct and of having attended at least 80 per cent of (i) the lectures and (ii) the practical classes. No exemption shall ordinarily be given. In no case will any candidate be admitted to the examination if the attendance is less than 70 per cent.

3. All sessional work is valued and marks awarded by the members of staff and a certificate of progress given by the Head of the department. The Dean of the Faculty shall recommend to the Registrar the names of candidates who can be sent up for the examination on the basis of the conduct and progress in class work during the academic year. Candidates who do not show satisfactory progress will not be sent for the examination. Such candidates may be permitted to repeat the course once.

Marks will be awarded for work as provided in the scheme of examinations and the lists of marks sent by the Head of the Department to the Registrar before the end of the examinations for transmission to the Chairman of the Board. These marks will be added to the marks obtained in the University examinations in the respective subjects.

3-A A candidate failing in any year's examination in not more than two papers including practical but securing the aggregate minimum prescribed for the whole examination shall be permitted to proceed to the next higher class and take its examination, together with the examination of the previous year in the subjects in which he failed. The results of the examination in the case of such candidates will not be considered if they fail to complete successfully the examination of the previous year.

Intermediate Technology Examination—Part I.

4. A candidate for the Intermediate Technology Examination, Part I, shall be required to have attended the University College of Technology for a period of not les than one academic year.

5. The scheme of instruction shall be as hereunder :—

	Subject.	Instruction. Hours per week. L.	D.	P.	Examination. Duration hours.	Marks maximum.	Sessional marks.	Total.
1	Inorg. Chem.	1	—	—				
2	Org. Chem.	2	—	—				
3	Physical Chem.	1	—	—				
4	Physics	3	—	—	3	100	20	120
5	Mathematics	2	—	—				
6	Engg. Mech.	1	—	—	3	100	20	120
7	Qual. Analy. I and II Terms	9x 2/3 *						
8	Quant. Analy. III Term	9x 1/3 *			..			
9	Physics Practical	—	—	3	3	100	20	120
10	Drawing	—	4	—	3	100	20	120
11	Workshop	—	—	2*				
		10	4	14 = 28				480

* Combine with 4 and 6 respectively.

6. Candidates who obtain not less than 30 per cent of the marks in each subject separately in Theory and Practical and not less than 40 per cent of the aggregate marks assigned for the whole examination shall be deemed to have passed the Intermediate Technology Examination in Part I. All other candidates shall be deemed to have failed in the examination.

Candidates failing in the examination but passing in any subject or subjects by obtaining not less than 50 per cent of the marks shall be exempted from reappearance for the examination in that subject or subjects.

Intermediate Technology Examination—Part II.

7. Candidates for the Intermediate Technology Examination, Part II, shall be required to have attended the second year's course prescribed for a period of not less than one academic year and shall have passed the Intermediate Examination, Part I, or satisfied the conditions of Regulation 3 (*a*).

8. The scheme of instruction and examination shall be as hereunder—

	Subject.	Instruction. Hours per week. L.	D.	P.	Examination. Duration hours.	Marks maximum.	Sessional marks.	Total.
1	Mathematics	2	—	—	3	100	..	100
2	Inorg. Chem.	1	—	—	3	100	..	100
3	Org. Chem.	3	—	—	3	100	..	100
4	Phys. Chem.	2	—	—	3	100	..	100
5	Appl. Mech.	1	—	—	3	100	..	100
6	Elec. Engg.	1	—	—	3	100	..	100
7	Chem. Gravim. Prac. I Term	—	12 (Inor.)		6	100	20	120
8	Phys. and Org. Prac. II and III Terms	—	12 (Org.)		6	100	20	120
9	Elec. Engg. Lab.	—	2	3		100	20	120
10	Workshop	—	2	3		100	20	120
11	Drawing & Sk.	4	1	3		100	20	120
		10	4	16 = 30				1,200

9. Candidates who obtain not less than 30 per cent of the marks in each subject separately in Theory and Practical and not less than 40 per cent of the aggregate marks assigned for the whole examination shall be deemed to have passed the Examination. There will be no class and ranking. All other candidates shall be deemed to have failed in the examination.

Exemption from reappearance in subjects passed will be as per sub-paragraph of Regulation 6 above.

B.Sc. (Technology) Degree Examination, Part I.

10. Candidates for the B.Sc. (Tech.) Degree Examination in Technology Part I shall be required to have attended the third year's course prescribed in one of the branches for a period of not less than one academic year and shall have passed the Intermediate Examination, Part II, or satisfied the conditions of Regulation 3 (*a*).

11. Candidates shall be instructed and examined in the following subjects prescribed in accordance with the schemes detailed below :—

	Subject.	Instruction. Hours per week. L.	D.	P.	Examination. Duration hours.	Marks maximum.	Sessional marks.	Total.
1	Gen. Chem. Engg.	3	—	—	3	100	20	120
2	Gen. Ch. Tech.	3	—	—	3	100	..	100
3	Fuel Tech.	1	—	—	3	100	..	100
4	Ind. Stoichion.	1	—	—				
5	Appl. Phys. Chem.	2	—	—	3	100	..	100
6	Heat Eng.	1	—	—	3	100	..	100
7	Gen. Chem. Tech.	—	—	10	I 6	100	20	120
					II 6	100	20	120
8	Fuel Tech.	—	4	1	6	100	20	120
9	Appl. Phys. Chem.		—	4				
10	Engg. Lab.	—	—	4	H. Eng. 3	100	20	120
11	Drawing	—	2*	—				
		11	2	19 = 32				1,000

* Combine with 1.

12. Candidates who obtain not less than 30 per cent of the marks in each subject separately in Theory and Practical and not less than 50 per cent of the aggregate marks assigned for the whole examination shall be deemed to have passed the Examination in Part I. All other candidates shall be deemed to have failed in the examination.

13. Exemption from reappearance in subjects passed will be as per sub-paragraph of Regulation 6 above.

B.Sc. (Tech.) Degree Examination, Part II.

14. Candidates for the B.Sc. (Tech.) Degree Examination, Part II, shall be required to have attended the fourth year's course prescribed for a period of not less than one academic year and shall have passed the Part I Examination or satisfied the conditions of Regulation 3-A.

	Subject.	Instruction. Hours per week. L.	D.	P.	Examination. Duration hours.	Marks maximum.	Sessional marks.	Total.
A. 1	Ind. Econ.-etc.	3	—	—	3	100	..	100
B. 2	Chem. Engg. I	2	—	—	3	100	20	120
3	Do. II	2	—	—	3	100	20	120
4	Do. III	2	—	—	3	100	20	120
5	Do. IV	2	—	—	3	100	20	120
6	Drg. Ch. Plants	—	4	—	4	100	20	120
7	Dissertation	—	—	*3 months.		100	..	100
C. 8	Pract.	—	—	15† 3 days.		100	..	100
9	Surveying	1	—3x½†					
		12	4	16 = 32				1,100

* Vide syllabus. † Combine with 2, 3, 4, 5 respectively.

15. Candidates who obtain not less than 30 per cent of the marks in each subject separately in Theory and Practical and not less than 50 per cent in the aggregate marks assigned for the whole examination shall be deemed to have passed the Examination in Part II. All candidates passing Parts I and II of the Degree Examination in Technology on the first attempt shall be ranked in the order of proficiency as determined by the total marks obtained by them in both parts and shall be arranged in two classes the first class consisting of those securing not less than 60 per cent of the aggregate marks and the second class consisting of all the others. Candidates obtaining not less than 66⅔ per cent of the aggregate marks shall be deemed to have passed the Degree Examination with honours.

16. The candidates to obtain the degree should have completed 6 months practical training of which 3 months may be during the college course.

Candidates failing in the examination but passing in any subject or subjects by obtaining not less than 50 per cent of the marks shall be exempted from reappearance for the examination in that subject or subjects.

NOTE.—During the course in the University College of Engineering and Technology, endeavour will be made to give facilities to the students to visit works of importance and the students will be required to submit notes on visits to those works.

(III)

MADRAS SERVICES MANUAL—VOLUME II—PROVINCIAL SERVICES.

Section 1—Agricultural Service.

Category.	Reference to page of service manual.	Modification regarding qualification proposed.
3 and 6 Research and Assistant Research Officers, Government Entomologist, Mycologist, Agricultural Chemist, Cotton Specialist, Millet Specialist.	5 and 6 ..	After "B.A. (Hons.)" *add* "or B.Sc. (Hons.)" [as degrees of both Pass and Hons. standard in the Science Faculty are designated B.Sc. (Pass) and B.Sc. (Hons.) respectively in this University.]

Section 2—Boiler service.

Inspector of Boilers	7 ..	After the first line "B.E. (Mech. Eng.) of the Madras University or" *add* "B.E. (Mech. Eng.) of the Annamalai University or."

Section 6—Educational Service.

Class II Officers and all others in annexure referred to in rule 6 (*a*).	21 ..	(*a*) For the words "M.A. or B.A. (Hons.) or B.Sc. (Hons.) of the University of Madras," *read* "M.A. or B.A. (Hons.) or B.Sc. (Hons.) of a University in the Province" wherever the former words occur in the annexure on pages 21 to 25.
Class III—Professors or Lecturers in Languages		(*b*) The proviso under this section and the proviso at the end of page 21 regarding B.O.L. Degree of the University of Madras be so amended as to include after "Madras" "[or Annamalai University".
Class V (2) (*a*) (*b*) (*c*)		(*c*) A general amendment to the effect that wherever B.E. Degree of the University of Madras in a particular branch is specified as a qualification for a post, it may be changed to read as "or of the Annamalai University."
Class V (3) and (4)	33 ..	For the words "The University of Madras", *read* "any University in the Province" to comprehend similar courses and degrees common to more than one University, namely, Madras University as is now specified.

Sections 7 and 8—Electrical Service and Engineering Service.

1 Assistant Engineers	26, 27	The restriction of the qualification in any particular branch of the B.E. Degree of the Madras University alone as now specified may be removed by amending the present language to read as "a degree in Civil or Mechanical or Electrical Engineering branch (as the case may be) of any University in the Province."
2 Executive Engineers	29, 30	
3 Workshop Superintendent	32	
4 Sanitary and Public Health Engineers	33, 34	

Section 10—Factory Service.

Deputy Chief Inspector of Factories	37 ..	*For* "B.E. Degree of the Madras University" *read* "B.E. Degree of a University in the Province" and *add* "or the degree of B.Sc. (Tech.) in Chemical Technology and Engineering of the Annamalai University."

To A.S.

The Papers may be recorded for facility of future reference.

Sd....
8-10-1949.

G.O.Ms.No.3431. PUBLIC SERVICES. D-10-10-49.

PUBLIC SERVICES - Provincial and Subordinate Services - Qualifications - New Degrees and diplomas instituted by the Universities in the Province/prescription in the concerned special rules - Papers Recorded.

/True Copy/

R Thiagaraja
23-4

OFFICE ASSISTANT.
MADRAS RECORD OFFICE.

KP/17/H/-.

18/10/83 18.11

****